6 849 557. Approved for use through 04/30/2003. OMB 0651-0031 U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE eduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number. Application Number 08/846,671 RANSMITTAL Filing Date April 30, 1997 **FORM** First Named Inventor Kei-Yu Ko Art Unit 1763 (to be used for all correspondence after initial filing) **Examiner Name** George Goudreau Attorney Docket Number MI22-2041 Total Number of Pages in This Submission **ENCLOSURES** (Check all that apply) After Allowance Communication ~ to a Technology Center (TC) Fee Transmittal Form Drawing(s) Appeal Communication to Board Licensing-related Papers of Appeals and Interferences Fee Attached Appeal Communication to TC Petition (Appeal Notice, Brief, Reply Brief) Amendment/Reply Petition to Convert to a Proprietary Information After Final Provisional Application Power of Attorney, Revocation Status Letter Affidavits/declaration(s) Change of Correspondence Address Other Enclosure(s) (please Terminal Disclaimer Extension of Time Request Identify below): Return Receipt Postcard; Certificate of Request for Refund **Express Abandonment Request** Correction (2); CD, Number of CD(s) Information Disclosure Statement Remarks Certified Copy of Priority Document(s) Additional Enclosures: Request for Certificate of Correction; Copies of Initialed Forms PTO-1449; A \$100.00 Check. Response to Missing Parts/ Incomplete Application Patent No. 6,849,557 B2 Issued: February 1, 2005 Response to Missing Parts Certificate under 37 CFR 1.52 or 1.53 AUG 1 5 2005 SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT of Correction

Wells St. John, P.S. Individual Signature Date 0 CERTIFICATE OF TRANSMISSION/MAILING I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, Washington, DC 20231 on this date: Typed or printed Natalie King

Firm

Signature

Mark S. Matkin, Reg. No. 32,268

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.4. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Tipe will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Washington, DC 20231.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

Date

Fee (\$)

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Fee (\$)

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Fee Description

Each claim over 20 (including Reissues)

Effect Fees pursuant to the Conselle	on 12/08/2	004.			Соп	nplete if Know	'n
Fees pursuant to the Consele	éted Appropri	ations Act, 2005 (H.F	R. 4818).	Application Number	er 08/	846,671	
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l Fo	r FY 2	005	F	First Named Inven	tor Kei	-Yu Ko	
			E	Examiner Name	Ge	orge Goudreau	l
Applicant claims small entity status. See 37 CFR 1.27			27	Art Unit	176	63	
TOTAL AMOUNT OF PAY	MENT (\$) 100.00) [Attomey Docket N	o. MI2	22-2041	
METHOD OF PAYMEN	T (check al	I that apply)					
Check Credit C Deposit Account D For the above-identi	eposit Accour		25	Deposit Acco	unt Name:	Wells St. Joh	nn, P.S.
under 37 CFF WARNING: Information on this information and authorization	dditional fee R 1.16 and 1 s form may b	e(s) or underpayme .17 ecome public. Cred		Credit a	ny overpa	yments	ovide credit card
FEE CALCULATION						-	
1. BASIC FILING, SEAF Application Type	FILING		SEARC	H FEES E Small Entity Fee (\$)		ATION FEES Small Entity Fee (\$)	Fees Paid (\$)
Utility	300	150	500	250	200	100	
Design	200	100	100	50	130	65	
Plant	200	100	300	150	160	80	
Reissue	300	150	500	250	600	300	
Provisional	200	100	0	0	0	0	
2 EYCESS CLAIM FEI	=6						Small Entity

200 100 Each independent claim over 3 (including Reissues) 180 Multiple dependent claims 360 **Total Claims** Extra Claims Fee Paid (\$) **Multiple Dependent Claims** Fee (\$) Fee Paid (\$) Fee (\$) HP = highest number of total claims paid for, if greater than 20. Indep. Claims **Extra Claims** Fee (\$) Fee Paid (\$) - 3 or HP = HP = highest number of independent claims paid for, if greater than 3. If the specification and drawings exceed 100 sheets of paper (excluding electronically filed sequence or computer listings under 37 CFR 1.52(e)), the application size fee due is \$250 (\$125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s). Number of each additional 50 or fraction thereof Extra Sheets **Total Sheets** (round up to a whole number) x 4. OTHER FEE(S) Fees Paid (\$) Non-English Specification, \$130 fee (no small entity discount) Other (e.g., late filing surcharge): Request for Certificate of Correction \$100.00

SUBMITTED BY		
Signature	Registration No. (Attorney/Agent)	2,268 Telephone 509-624-4276
Name (Print Type) Mark S. Matkin		Date 8/1/05

This collection of information is required by 37 CFR 1.136. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 30 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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Effection Fees pursuant to the Consequent	on 12/08/200	04.		_	(Complete if Known	
			118).	Application Num	ber	08/846,671	
		MITTAL	<u> </u>	Filing Date		April 30, 1997	
For	FY 20	05		First Named Inve	entor	Kei-Yu Ko	
Applicant claims small	ontity etatus	See 37 CED 1 27	[Examiner Name		George Goudreau	
	<u>-</u>	366 37 CFR 1.27	—[<i>7</i>	Art Unit		1763	
TOTAL AMOUNT OF PAYN	IENT (\$)	100.00		Attorney Docket	No.	MI22-2041	
METHOD OF PAYMENT	(check all t	hat apply)					
Check Credit Card Money Order None Other (please identify): Deposit Account Deposit Account Number: 23-0925 Deposit Account Name: Wells St. John, P.S.							
For the above-identifi			s hereb	y authorized to:	(check	all that apply)	
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FEE CALCULATION				*		· · · · · · · · · · · · · · · · · · ·	
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Reissue	300	150 5	00	250	600	00	
Provisional	200	100	0	0	0		10
2. EXCESS CLAIM FEES Fee Description Each claim over 20 (including Reissues) Each independent claim over 3 (including Reissues) Multiple dependent claims Total Claims Total Claims Fee (\$) Fee Paid (\$) HP = highest number of total claims paid for, if greater than 20. Indep. Claims Extra Claims Fee (\$) Fee Paid (\$) HP = highest number of independent claims paid for, if greater than 3.							
3. APPLICATION SIZE FEE If the specification and drawings exceed 100 sheets of paper (excluding electronically filed sequence or computer listings under 37 CFR 1.52(e)), the application size fee due is \$250 (\$125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s). Total Sheets Extra Sheets Number of each additional 50 or fraction thereof - 100 = /50 = (round up to a whole number) x = 4. OTHER FEE(S)							
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SUBMITTED BY		
Signature	Registration No. (Attorney/Agent) 32,268	Telephone 509-624-4276
Name (Print Type) Mark S. Matkin		Date 8/1/05

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Patent No	6.849.557 B1
Patent Issue Date	
Application Serial No	
Filing Date	April 30, 1997
Assignee	Micron Technology, Inc.
Inventorship	
Attorney's Docket No	MI22-2041
Title: Undoped Silicon Dixoide as Etch S	Stop for Selective Etch of Doped Silicon
Dioxide	

REQUEST FOR CERTIFICATE OF CORRECTION OF PATENT FOR APPLICANT MISTAKES and PTO MISTAKES (37 C.F.R. §§ 1.322(a) and 1.323)

To:

Commissioner for Patents

P.O. Box 1450

Alexandria, VA 22313-1450

ATTN:

Decision and Certificate of Correction
Branch of the Patent Issue Division

From:

Mark S. Matkin (Tel. 509-624-4276; Fax 509-838-3424)

Wells St. John P.S.

601 W. First Avenue. Suite 1300

Spokane, WA 99201-3828

Sir:

It is hereby requested that a Certificate of Correction be issued with respect to Patent No. 6,849,557 B1, granted February 1, 2005, in accordance with the Certificate of Correction form attached hereto in duplicate.

It is noted that errors appear in this patent of a typographical nature of character, as more fully described below. The errors occurred in good faith. Correction thereof does not involve such changes in the patent as would constitute new matter or would require re-examination.

Other errors listed on the Certificate of Correction form were apparently incurred through the fault of the PTO as will be disclosed by the records of files 08/08/2005 MMOLDGE1 00000022 6849557

01 FC:1811

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in the Office. Regarding the references cited, copies of documents from the file are included herewith which evidence the Examiner's consideration and citation of the subject references.

Attached hereto, in duplicate, is Form PTO-1050, with at least one copy being suitable for printing.

The exact page and line number where the errors occur in the application file are:

Page 11, line 6;

Page 13, line 6;

Page 13, line 8;

Page 11, line 2, our claim 26 (PTO claim 21), of the Amendment filed

March 7, 2003.

Enclosed is a check in the amount of \$100.00, as required by 37 CFR 1.20(a).

Respectfully submitted,

Dated: 8-1-05

Mark S Matki

Reg. No. 32,268

CERTIFICATE OF CORRECTION

PATENT NO.

: 6,849,557 B1

DATED

: February 1, 2005

INVENTOR(S)

: Ko

It is certified that errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Title Page 1, (56) References Cited, U.S. PATENT DOCUMENTS,

4,672,740	06/1987		Shirai et al.
4,807,016	02/1989	*	Douglas
4,818,335	04/1989		Karnett
5,037,777	08/1991	*	Mele et al.
5,063,169	11/1991		DeBruin et al.

Title Page 2, (56) References Cited, U.S. PATENT DOCUMENTS,

5,192,703	03/1993	Lee et al.
5,208,176	05/1993	Ahmad et al.
5,210,047	05/1993	Woo et al.
5,229,311	07/1993	Lai et al.
5,269,879	12/1993	Rhoades et al.
5,298,465	03/1994	Levy
5,312,768	05/1994	Gonzalez
5,323,047	06/1994	Nguyen
5,393,704	02/1995	Huang et al.

Page 1 of 6

Mailing Address of Sender:

Mark S. Matkin Wells St. John P.S.

601 West First Avenue, Suite 1300

Spokane, WA 99201-3828

Patent No. <u>6,849,557 B1</u>

CERTIFICATE OF CORRECTION

PATENT NO.

: 6,849,557 B1

DATED

: February 1, 2005

INVENTOR(S)

: Ko

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5,403,779	04/1995	Joshi et al.	
5,422,308	06/1995 *	Nicholls et al.	
5,430,328	07/1995	Hsue	
5,478,772	12/1995	Fazan	
5,482,894	01/1996	Havemann	
5,485,035	01/1996	Lin et al.	
5,550,071	08/1996	Ryou	
5,611,888	03/1997 *	Bosch et al.	
5,658,425	08/1997	Halman et al.	
5,685,914	11/1997	Hills et al.	
5,705,427	01/1998	Chan et al.	
5,731,242	03/1998	Parat et al.	
5,747,369	05/1998 *	Kantimahanti et al.	
5,780,338	07/1998	Jeng et al.	
5,783,496	07/1998	Flanner	
5,792,703	08/1998	Bonner et al.	
5,817,579	10/1998	Ko et al.	
5,821,594	10/1998 *	Kasai	
5,830,807	11/1998	Matsunaga	
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		Page	

2 of 6

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601 West First Avenue, Suite 1300

Spokane, WA 99201-3828

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DATED

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	•	
5,851,896 12	/1998	Summerfelt
5,871,659	02/1999	Sakano et al.
5,908,320	06/1999	Chu et al.
5,946,568	08/1999	Hsiao et al.
6,065,481 A	05/2000	Fayfield et al.
6,074,488	06/2000	Roderick et al.
6,074,958	06/2000	Tokunaga etal
6,117,788	09/2000	Ko
6,117,791	09/2000	Ko et al.
6,121,671	09/2000	Ko et al.
6,153,490	11/2000	Xing et al.
6,159,862	12/2000	Yamada et al.
6,165,880	12/2000	Yaung et al.
6,171,970 B1	01/2001	Xing et al.
6,174,451 B1	01/2001	Hung et al.
6,183,655 B1	02/2001	Wang et al.
6,254,966 B1	07/2001	Kondo
6,277,758 B1	08/2001	Ko
6,337,285 B1	01/2002	Ko
		Page
		3 of 6
Mailing Address of Mark S. Matkin	Sender:	Patent No. <u>6,849,557 B1</u>
Wells St. John P.S.		
601 West First Aven	•	

Spokane, WA 99201-3828

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6,362,109

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Kim et al.

6,372,605 B1 04/2002

Kuehne et al.

6,432,833 B1 08/2002

6,458,685 B1 10/2002

Ko et al.

Ko

Title Page 1, (56) References Cited, FOREIGN PATENT DOCUMENTS,

61-133,555

12/1984

Japan (Varta)

60-042.821

03/1985

Japan (Sato)

0 496 614 A1 07/1992

EPO (NEC)

0 465 044 A2 08/1992

EPO (AT&T)

04-239,723

08/1992

Japan (Nakano)

6-69166

03/1994

Japan (Tokuhiko)

8-181121

07/1996

Japan (Fujita)

8-250449

09/1996

Japan (Tetsuo)

0 763 850 A1 03/1997

EPO (Applied Materials)

EPO (Texas Instruments)

WO 98/49719 11/1998

0 680 084 A1 04/1995

WIPO (Micron)

Page 4 of 6

Mailing Address of Sender:

Mark S. Matkin

Wells St. John P.S.

601 West First Avenue, Suite 1300

Spokane, WA 99201-3828

CERTIFICATE OF CORRECTION

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Abatchev et al., Study of the Boron-Phosphorous Doped and Undoped Silicate Glass Etching in CHF3/Ar Plasma, 96 ELECTROCHEM. Soc. PROCEEDINGS, No. 12, pp. 522-530 (1996).

W.G.M. van den Hoek et al., *Isotropic plasma etching of doped and undoped silicon dioxide for contact holes and vias*, 7 J. VAC. SCI. TECHNOL. A., No. 3, pp. 670-675 (May/June 1989).

Serial No. 09/945,508; Filed 08/2001; Ko

Page 5 of 6

Mailing Address of Sender:

Mark S. Matkin Wells St. John P.S. 601 West First Avenue, Suite 1300 Spokane, WA 99201-3828

CERTIFICATE OF CORRECTION

PATENT NO.

: 6,849,557 B1

DATED

: February 1, 2005

INVENTOR(S)

: Ko

It is certified that errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Col. 3, line 12, please delete "s" after "undoped".

Col. 3, line 56, please delete "arc" after "stacks" and insert --are--.

Col. 5, line 23, please delete "in" after "28" and insert --is--.

Col. 6, line 33, please delete "enchants" after "fluorinated" and insert --etchants--.

Col. 6, line 40, please delete "enchant" before "is a" and insert --etchant--.

Col. 9, line 43, claim 21, please delete "contract" after "forming a" and insert --contact--.

Col. 12, line 5, claim 37, please insert --pressure-- after "at a".

Col. 13, line 41, claim 41, please delete "1millitorr" after "about" and insert --1 millitorr--.

Page 6 of 6

Mailing Address of Sender:

Mark S. Matkin Wells St. John P.S. 601 West First Avenu

601 West First Avenue, Suite 1300

Spokane, WA 99201-3828

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5,037,777	08/1991	*	Mele et al.
5,063,169	11/1991		DeBruin et al.

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5,269,879	12/1993	Rhoades et al.
5,298,465	03/1994	Levy
5,312,768	05/1994	Gonzalez
5,323,047	06/1994	Nguyen
5,393,704	02/1995	Huang et al.

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	5,747,369	05/1998 *	Kantimahanti et al.
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			Page 2 of 6

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Ections I dictit to hereby defrected do shown below.								
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6,337,285 B1 0	1/2002	Ko						
		Page 3 of 6						
Mailing Address of Se Mark S. Matkin	ender:	Patent No. <u>6,849,557 B1</u>						
Wells St. John P.S.	Suite 1200	·						
601 West First Avenue Spokane, WA 99201-3								

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Japan (Sato)

0 496 614 A1 07/1992

EPO (NEC)

0 465 044 A2 08/1992

EPO (AT&T)

04-239,723

08/1992 03/1994

Japan (Nakano)

6-69166

0 680 084 A1 04/1995

Japan (Tokuhiko) **EPO (Texas Instruments)**

8-181121

07/1996

Japan (Fujita)

8-250449

09/1996

Japan (Tetsuo)

0 763 850 A1 03/1997

EPO (Applied Materials)

WO 98/49719 11/1998

WIPO (Micron)

Page 4 of 6

Mailing Address of Sender:

Mark S. Matkin

Wells St. John P.S.

601 West First Avenue, Suite 1300

Spokane, WA 99201-3828

Patent No. 6,849,557 B1

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PAT-US\CR-01

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Abatchev et al., Study of the Boron-Phosphorous Doped and Undoped Silicate Glass Etching in CHF3/Ar Plasma, 96 ELECTROCHEM. Soc. PROCEEDINGS, No. 12, pp. 522-530 (1996).

W.G.M. van den Hoek et al., *Isotropic plasma etching of doped and undoped silicon dioxide for contact holes and vias*, 7 J. VAC. SCI. TECHNOL. A., No. 3, pp. 670-675 (May/June 1989).

Serial No. 09/945,508; Filed 08/2001; Ko

Page 5 of 6

Mailing Address of Sender:

Mark S. Matkin Wells St. John P.S. 601 West First Avenue, Suite 1300 Spokane, WA 99201-3828 Patent No. <u>6,849,557 B1</u>

CERTIFICATE OF CORRECTION

PATENT NO.

: 6,849,557 B1

DATED

: February 1, 2005

INVENTOR(S)

: Ko

It is certified that errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Col. 3, line 12, please delete "s" after "undoped".

Col. 3, line 56, please delete "arc" after "stacks" and insert -- are--.

Col. 5, line 23, please delete "in" after "28" and insert --is--.

Col. 6, line 33, please delete "enchants" after "fluorinated" and insert --etchants--.

Col. 6, line 40, please delete "enchant" before "is a" and insert --etchant--.

Col. 9, line 43, claim 21, please delete "contract" after "forming a" and insert --contact--.

Col. 12, line 5, claim 37, please insert --pressure-- after "at a".

Col. 13, line 41, claim 41, please delete "1 millitorr" after "about" and insert -- 1 millitorr--.

Page 6 of 6

Mailing Address of Sender:

Mark S. Matkin Wells St. John P.S. 601 West First Avenue, Suite 1300 Spokane, WA 99201-3828

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While the filing of Information Disclosure Statements is voluntary, the procedure is governed by the guidelines of Section 609 of the Manual of Patent Examining Procedure and 37 C.F.R. §§ 1.97 and 1.98. To be considered a proper Information Disclosure Statement, Form PTO-1449 shall be accompanied by a copy of each listed patent or publication or other item of information and a translation of the pertinent portions of foreign documents (if an existing translation is readily available to the applicant), an explanation of relevance of each reference not in the English language, and should be submitted in a timely manner as set out in MPEP Sec. 609.

Examiners will consider all citations submitted in conformance with 37 C.F.R. § 1.98 and MPEP Sec. 609 and place their initials adjacent the citations in the spaces provided on this form. Examiners will also initial citations not in conformance with the guidelines which may have been considered. A reference may be considered by the Examiner for any reason whether or not the citation is in full conformance with the guidelines. A line will be drawn through a citation if it is not in conformance with the guidelines AND has not been considered. A copy of the submitted form, as reviewed by the Examiner, will be returned to the applicant with the next communication. The original of the form will be entered into the application file.

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